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(21) International Application Number: PCT/US00/07959 (22) International Filing Date: 23 March 2000 (23.03.00) (30) Priority Data: 60/125,996 24 March 1999 (24.03.99) US (71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as represented by THE SECRETARY, DEPARTMENT OF HEALTH & HUMAN SERVICES, THE NATIONAL INSTITUTES OF HEALTH [US/US]; Office of Technology Transfer, Suite #325, 6011 Executive Boulevard, Rockville, MD 20852 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): SHEARER, Gene, M. [US/US]; 5512 Glenwood Road, Bethesda, MD 20817 (US). ZOU, Jian-Ping [CN/US]; 263 Congressional Lane, Rockville, MD 20852-5318 (US). COLIGAN, John, E. [US/US]; 10913 Broad Green Terrace, Potomac, MD 20854 (US). CHOUGNET, Claire [FR/US]; 2129 N. St. #4, Washington, DC 20037 (US).		(74) Agent: NOONAN, William, D.; Klarquist, Sparkman, Campbell, Leigh & Whinston, LLP, Suite 1600 - One World Trade Center, 121 S.W. Salmon Street, Portland, OR 97204 (US). (81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published Without international search report and to be republished upon receipt of that report.
(54) Title: INDUCTION OF ANTIGEN-SPECIFIC UNRESPONSIVENESS BY GLIOBLASTOMA CULTURE SUPERNATANTS (GCS)		
(57) Abstract <p>The present invention concerns methods of specifically inhibiting an immune response of a subject to one or more selected antigens using an immunosuppressive composition derived from a glioblastoma cell line. The method steps include obtaining a population of antigen presenting cells (APCs); loading the APC population with specific antigens (in auto-immune diseases) or using donor APCs (for transplantation); incubating the APC population with the immunosuppressive composition; and introducing the incubated cells into the subject being treated. The APCs can be monocytes, macrophages, or dendritic cells. This method causes specific inhibition of the immune response because it induces apoptosis and/or anergy in the subject's T cells specific for antigens present on the APCs, but does not affect the immune response to antigens not present on the APC surfaces. One particular embodiment of the present method is the specific inhibition of a transplant recipient's immune reaction to antigens present on the allogeneic graft. A second particular embodiment of the present method is the specific inhibition of the immune response to an autoantigenic protein by a subject suffering from an autoimmune disease.</p>		